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Hypoglycaemic, hypolipidemic and antioxidant properties of Tulsi (Ocimum Sanctum Linn) on streptozotocin induced diabetes in rats

*Indian Journal of Clinical Biochemistry. 2001 Jul; 16(2): 190-4*

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ABSTRACT: Effect of oral administration of 200 mg/kg body weight of the aqueous extract of Ocimum sanctum (Tulsi) mixed with diet for eight weeks to diabetic (streptozotocin induced) rats was studied. There was significant reduction in fasting blood glucose, serum lipid profile, lipid peroxidation products, (LPO) and improvement in glucose tolerance. The aqueous extract also decreased LPO formation (thiobarbituric acid reactive substances TBARS) and increased antioxidant enzymes superoxide dismutase (SOD), catalase (CAT), glutathione peroxidase (GPX), glutathione transferase (GT) and one antioxidant reduced glutathione (GSH) in plasma and rat liver, lung, kidney and brain. The decrease in TBARS and increase in GSH, SOD, CAT, GPX, and GT clearly shows the antioxidant property of Ocimum sanctum.

KEYWORDS:

Antioxidants/PK; Lipid Peroxidation; Diabetes Mellitus/DI; Hypoglycemic Agents/TU; Thiobarbituric Acid Reactive Substances/PK; Glutathione/BI; Human

OTHER KEYWORDS:

Ocimum sanctum (Tulsi)

References: 17

Record Identifier: NI203778